Jian Xu

List of Publications by Year in descending order

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241 papers	11,404 citations	28190 55 h-index	37111 96 g-index
246 all docs	246 docs citations	246 times ranked	13668 citing authors

#	Article	IF	Citations
1	Bioinspired Modification of h-BN for High Thermal Conductive Composite Films with Aligned Structure. ACS Applied Materials & Interfaces, 2015, 7, 5701-5708.	4.0	403
2	Combination of Bioinspiration: A General Route to Superhydrophobic Particles. Journal of the American Chemical Society, 2012, 134, 9879-9881.	6.6	389
3	Creation of a Superhydrophobic Surface from an Amphiphilic Polymer. Angewandte Chemie - International Edition, 2003, 42, 800-802.	7.2	386
4	Dynamic Self-Assembly Induced Rapid Dissolution of Cellulose at Low Temperatures. Macromolecules, 2008, 41, 9345-9351.	2.2	368
5	NiS2@CoS2 nanocrystals encapsulated in N-doped carbon nanocubes for high performance lithium/sodium ion batteries. Energy Storage Materials, 2018, 11, 67-74.	9.5	346
6	Oxime-Based and Catalyst-Free Dynamic Covalent Polyurethanes. Journal of the American Chemical Society, 2017, 139, 8678-8684.	6.6	290
7	1D to 3D hierarchical iron selenide hollow nanocubes assembled from FeSe2@C core-shell nanorods for advanced sodium ion batteries. Energy Storage Materials, 2018, 10, 48-55.	9.5	221
8	Multi-membrane hydrogel fabricated by facile dynamic self-assembly. Soft Matter, 2009, 5, 1987.	1.2	211
9	The porous structure of the fully-aromatic polyamide film in reverse osmosis membranes. Journal of Membrane Science, 2015, 475, 504-510.	4.1	205
10	Bioinspired Materials: from Low to High Dimensional Structure. Advanced Materials, 2014, 26, 6994-7017.	11.1	198
11	A new approach to polymer/montmorillonite nanocomposites. Polymer, 2003, 44, 4619-4624.	1.8	197
12	Fabrication of Biomimetic Superhydrophobic Coating with a Micro-Nano-Binary Structure. Macromolecular Rapid Communications, 2005, 26, 1075-1080.	2.0	195
13	Mussel-Inspired Chemistry for Robust and Surface-Modifiable Multilayer Films. Langmuir, 2011, 27, 13684-13691.	1.6	186
14	Superhydrophobic Surface from Vapor-Induced Phase Separation of Copolymer Micellar Solution. Macromolecules, 2005, 38, 8996-8999.	2.2	172
15	Hierarchical nanocomposite of polyanilinenanorods grown on the surface of carbon nanotubes for high-performance supercapacitor electrode. Journal of Materials Chemistry, 2012, 22, 2774-2780.	6.7	156
16	Mussel Inspired Modification of Polypropylene Separators by Catechol/Polyamine for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 5602-5608.	4.0	147
17	Vacuumâ€Dried Robust Bridged Silsesquioxane Aerogels. Advanced Materials, 2013, 25, 4494-4497.	11.1	139
18	Investigation on sound absorption properties of kapok fibers. Chinese Journal of Polymer Science (English Edition), 2013, 31, 521-529.	2.0	138

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19	Intelligent rubber with tailored properties for self-healing and shape memory. Journal of Materials Chemistry A, 2015, 3, 12864-12872.	5.2	132
20	Cellulose/silver nanoparticles composite microspheres: eco-friendly synthesis and catalytic application. Cellulose, 2012, 19, 1239-1249.	2.4	114
21	Thermal Gelation of Cellulose in a NaOH/Thiourea Aqueous Solution. Langmuir, 2004, 20, 2086-2093.	1.6	113
22	Superelastic and ultralight polyimide aerogels as thermal insulators and particulate air filters. Journal of Materials Chemistry A, 2018, 6, 828-832.	5.2	113
23	Facile in situ synthesis of silver nanoparticles on boron nitride nanosheets with enhanced catalytic performance. Journal of Materials Chemistry A, 2015, 3, 16663-16669.	5.2	110
24	Fabrication of oriented hBN scaffolds for thermal interface materials. RSC Advances, 2016, 6, 16489-16494.	1.7	108
25	Stereodivergent Protein Engineering of a Lipase To Access All Possible Stereoisomers of Chiral Esters with Two Stereocenters. Journal of the American Chemical Society, 2019, 141, 7934-7945.	6.6	106
26	Fabrication and application of superhydrophilic surfaces: a review. Journal of Adhesion Science and Technology, 2014, 28, 769-790.	1.4	105
27	Protein diffusion in agarose hydrogel in situ measured by improved refractive index method. Journal of Controlled Release, 2006, 115, 189-196.	4.8	104
28	A Lotus-Leaf-Like Superhydrophobic Surface Prepared by Solvent-Induced Crystallization. ChemPhysChem, 2006, 7, 824-827.	1.0	100
29	Smart Enrichment and Facile Separation of Oil from Emulsions and Mixtures by Superhydrophobic/Superoleophilic Particles. ACS Applied Materials & Interfaces, 2015, 7, 10475-10481.	4.0	99
30	Recyclable polybutadiene elastomer based on dynamic imine bond. Journal of Polymer Science Part A, 2017, 55, 2011-2018.	2.5	97
31	Skinâ€Inspired Doubleâ€Hydrophobicâ€Coating Encapsulated Hydrogels with Enhanced Water Retention Capacity. Advanced Functional Materials, 2021, 31, 2102433.	7.8	96
32	A novel and facile method to prepare porous hollow CuO and Cu nanofibers based on electrospinning. CrystEngComm, 2011, 13, 4856.	1.3	95
33	Facile fabrication of robust superhydrophobic porous materials and their application in oil/water separation. Journal of Materials Chemistry A, 2015, 3, 23252-23260.	5.2	94
34	Superhydrophobic/Superhydrophilic Janus Fabrics Reducing Blood Loss. Advanced Healthcare Materials, 2018, 7, e1701086.	3.9	94
35	3D conductive network-based free-standing PANIâ€“RGOâ€“MWNTs hybrid film for high-performance flexible supercapacitor. Journal of Materials Chemistry A, 2014, 2, 12340-12347.	5.2	92
36	Rapid sintering of silver nanoparticles in an electrolyte solution at room temperature and its application to fabricate conductive silver films using polydopamine as adhesive layers. Journal of Materials Chemistry, 2011, 21, 4875.	6.7	89

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37	Evaporation of Sessile Water Droplets on Superhydrophobic Natural Lotus and Biomimetic Polymer Surfaces. ChemPhysChem, 2006, 7, 2067-2070.	1.0	88
38	Recyclable, Self-Healing, Thermadapt Triple-Shape Memory Polymers Based on Dual Dynamic Bonds. ACS Applied Materials & Interfaces, 2020, 12, 9833-9841.	4.0	88
39	Dynamic multiphase semi-crystalline polymers based on thermally reversible pyrazole-urea bonds. Nature Communications, 2019, 10, 4753.	5.8	86
40	Antifogging and antireflective silica film and its application on solar modules. Surface and Coatings Technology, 2011, 206, 1490-1494.	2.2	85
41	Bioinspired â€œSkinâ€•with Cooperative Thermo-Optical Effect for Daytime Radiative Cooling. ACS Applied Materials & Interfaces, 2020, 12, 25286-25293.	4.0	84
42	Chemically modified kapok fiber for fast adsorption of Pb2+, Cd2+, Cu2+ from aqueous solution. Cellulose, 2013, 20, 849-860.	2.4	83
43	Robust Superhydrophobic Bridged Silsesquioxane Aerogels with Tunable Performances and Their Applications. ACS Applied Materials & Interfaces, 2015, 7, 2016-2024.	4.0	80
44	Highâ€Strength Cellulose/Poly(ethylene glycol) Gels. ChemSusChem, 2008, 1, 558-563.	3.6	77
45	Lightâ€Driven Kinetic Resolution of Î±â€Functionalized Carboxylic Acids Enabled by an Engineered Fatty Acid Photodecarboxylase. Angewandte Chemie - International Edition, 2019, 58, 8474-8478.	7.2	77
46	Superstretchable Dynamic Polymer Networks. Advanced Materials, 2019, 31, e1904029.	11.1	75
47	Recyclable Polydimethylsiloxane Network Crosslinked by Dynamic Transesterification Reaction. Scientific Reports, 2017, 7, 11833.	1.6	72
48	A small-angle X-ray scattering study and molecular dynamics simulation of microvoid evolution during the tensile deformation of carbon fibers. Carbon, 2012, 50, 235-243.	5.4	71
49	Fabryâ^'Perot Fringes and Their Application To Study the Film Growth, Chain Rearrangement, and Erosion of Hydrogen-Bonded PVPON/PAA Films. Journal of Physical Chemistry B, 2006, 110, 13484-13490.	1.2	68
50	Anti-fogging and anti-frosting behaviors of layer-by-layer assembled cellulose derivative thin film. Applied Surface Science, 2016, 370, 1-5.	3.1	68
51	A Bottom-Up Approach To Fabricate Patterned Surfaces with Asymmetrical TiO₂ Microparticles Trapped in the Holes of Honeycomblike Polymer Film. Journal of the American Chemical Society, 2011, 133, 3736-3739.	6.6	65
52	Fabrication and Properties of Cellulose Hydrated Membrane with Unique Structure. Macromolecular Chemistry and Physics, 2007, 208, 594-602.	1.1	64
53	Aerogels Derived from Polymer Nanofibers and Their Applications. Macromolecular Rapid Communications, 2018, 39, e1700724.	2.0	64
54	Microgel-Enhanced Double Network Hydrogel Electrode with High Conductivity and Stability for Intrinsically Stretchable and Flexible All-Gel-State Supercapacitor. ACS Applied Materials & Interfaces, 2018, 10, 19323-19330.	4.0	62

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55	The influence of pH on a hydrogen-bonded assembly film. Soft Matter, 2007, 3, 463-469.	1.2	59
56	Preparation, Stabilization and Carbonization of a Novel Polyacrylonitrile-Based Carbon Fiber Precursor. Polymers, 2019, 11, 1150.	2.0	59
57	Sound absorption behavior of electrospun polyacrylonitrile nanofibrous membranes. Chinese Journal of Polymer Science (English Edition), 2011, 29, 650-657.	2.0	55
58	In situ growth of hierarchical boehmite on 2024 aluminum alloy surface as superhydrophobic materials. RSC Advances, 2014, 4, 14708-14714.	1.7	55
59	Controlled Synthesis of Co@N-Doped Carbon by Pyrolysis of ZIF with 2-Aminobenzimidazole Ligand for Enhancing Oxygen Reduction Reaction and the Application in Znâ€“Air Battery. ACS Applied Materials & Interfaces, 2020, 12, 11693-11701.	4.0	54
60	Structure and properties of cellulose/chitin blended hydrogel membranes fabricated via a solution pre-gelation technique. Carbohydrate Polymers, 2010, 79, 677-684.	5.1	53
61	Robust Polypropylene Fabrics Super-Repelling Various Liquids: A Simple, Rapid and Scalable Fabrication Method by Solvent Swelling. ACS Applied Materials & Interfaces, 2015, 7, 13996-14003.	4.0	53
62	Microstructure and properties of polyacrylonitrile based carbon fibers. Polymer Testing, 2020, 81, 106267.	2.3	53
63	Light-driven decarboxylative deuteration enabled by a divergently engineered photodecarboxylase. Nature Communications, 2021, 12, 3983.	5.8	53
64	Kinetics and thermal properties of epoxy resins based on bisphenol fluorene structure. European Polymer Journal, 2009, 45, 1941-1948.	2.6	52
65	Pyrolysis of polymethylsilsesquioxane. Journal of Applied Polymer Science, 2002, 85, 1077-1086.	1.3	50
66	Fire-resistant, ultralight, superelastic and thermally insulated polybenzazole aerogels. Journal of Materials Chemistry A, 2018, 6, 20769-20777.	5.2	49
67	Porous and Nonporous Nanocapsules by H-Bonding Self-Assembly. Macromolecules, 2004, 37, 10059-10062.	2.2	48
68	Facile Creation of Biomimetic Systems at the Interface and in Bulk. Advanced Materials, 2008, 20, 2938-2946.	11.1	48
69	One step preparation of superhydrophobic polymeric surface with polystyrene under ambient atmosphere. Journal of Colloid and Interface Science, 2008, 322, 1-5.	5.0	47
70	Triboelectric nanogenerators made of polybenzazole aerogels as fire-resistant negative tribo-materials. Nano Energy, 2019, 64, 103900.	8.2	47
71	Composite Thin Film by Hydrogen-Bonding Assembly of Polymer Brush and Poly(vinylpyrrolidone). Langmuir, 2006, 22, 338-343.	1.6	46
72	Nanoscale dynamic mechanical imaging of the skinâ€“core difference: From PAN precursors to carbon fibers. Materials Letters, 2014, 128, 417-420.	1.3	46

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73	Lamellae break induced formation of shish-kebab during hot stretching of ultra-high molecular weight polyethylene precursor fibers investigated by in situ small angle X-ray scattering. Polymer, 2014, 55, 4299-4306.	1.8	46
74	Highly Elastic Fibers Made from Hydrogen-Bonded Polymer Complex. ACS Macro Letters, 2016, 5, 814-818.	2.3	46
75	Low-cost mussel inspired poly(catechol/polyamine) coating with superior anti-corrosion capability on copper. Journal of Colloid and Interface Science, 2016, 463, 214-221.	5.0	46
76	Multifunctional polymethylsilsesquioxane (PMSQ) surfaces prepared by electrospinning at the solâ€“gel transition: Superhydrophobicity, excellent solvent resistance, thermal stability and enhanced sound absorption property. Journal of Colloid and Interface Science, 2011, 359, 296-303.	5.0	44
77	Ultrahighâ€Strength Ultrahigh Molecular Weight Polyethylene (UHMWPE)â€Based Fiber Electrode for High Performance Flexible Supercapacitors. Advanced Functional Materials, 2018, 28, 1707351.	7.8	44
78	Functional bacterial cellulose membranes with 3D porous architectures: Conventional drying, tunable wettability and water/oil separation. Journal of Membrane Science, 2019, 591, 117312.	4.1	44
79	Biomimetic Polymer Film with Brilliant Brightness Using a Oneâ€Step Water Vaporâ€“Induced Phase Separation Method. Advanced Functional Materials, 2019, 29, 1808885.	7.8	44
80	Water uptake behavior of hydrogen-bonded PVPONâ€“PAA LBL film. Soft Matter, 2006, 2, 699-704.	1.2	42
81	Transition from shish-kebab to fibrillar crystals during ultra-high hot stretching of ultra-high molecular weight polyethylene fibers: In situ small and wide angle X-ray scattering studies. European Polymer Journal, 2015, 73, 127-136.	2.6	42
82	Fabrication and Characterization of an Organic-Inorganic Gradient Surface made by Polymethylsilsesquioxane (PMSQ). Macromolecular Rapid Communications, 2006, 27, 1603-1607.	2.0	41
83	Digital Light Processing 3D Printing of Healable and Recyclable Polymers with Tailorable Mechanical Properties. ACS Applied Materials & Interfaces, 2021, 13, 34954-34961.	4.0	41
84	Carbon Nanotubes Grown on the Carbon Fibers to Enhance the Photothermal Conversion toward Solar-Driven Applications. ACS Applied Materials & Interfaces, 2022, 14, 32404-32411.	4.0	41
85	Salt-induced erosion of hydrogen-bonded layer-by-layer assembled films. Soft Matter, 2009, 5, 860-867.	1.2	40
86	Complexation behavior of poly(acrylic acid) and lanthanide ions. Polymer, 2014, 55, 1183-1189.	1.8	40
87	Engineering Fatty Acid Photodecarboxylase to Enable Highly Selective Decarboxylation oftransFatty Acids. Angewandte Chemie - International Edition, 2021, 60, 20695-20699.	7.2	40
88	Microâ€“nano hierarchically structured nylon 6,6 surfaces with unique wettability. Journal of Colloid and Interface Science, 2010, 345, 116-119.	5.0	38
89	Dynamic cross-links to facilitate recyclable polybutadiene elastomer with excellent toughness and stretchability. Journal of Polymer Science Part A, 2016, 54, 1357-1366.	2.5	38
90	Reprintable Polymers for Digital Light Processing 3D Printing. Advanced Functional Materials, 2021, 31, 2007173.	7.8	38

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91	Superior Hard but Quickly Reversible Siâ€“Oâ€“Si Network Enables Scalable Fabrication of Transparent, Self-Healing, Robust, and Programmable Multifunctional Nanocomposite Coatings. Journal of the American Chemical Society, 2022, 144, 436-445.	6.6	36
92	Transport of Glucose and Poly(ethylene glycol)s in Agarose Gels Studied by the Refractive Index Method. Macromolecules, 2005, 38, 5236-5242.	2.2	35
93	Facile preparation of hollow amino-functionalized organosilica microspheres by a template-free method. Journal of Materials Chemistry, 2012, 22, 18010.	6.7	35
94	Reversible Swellingâ€“Shrinking Behavior of Hydrogen-Bonded Free-Standing Thin Film Stabilized by Catechol Reaction. Langmuir, 2015, 31, 5147-5154.	1.6	35
95	Coaxial electrospinning synthesis hollow Mo2C@C core-shell nanofibers for high-performance and long-term lithium-ion batteries. Applied Surface Science, 2019, 473, 352-358.	3.1	35
96	Preparation of continuous porous alumina nanofibers with hollow structure by single capillary electrospinning. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 489-494.	2.3	34
97	Hydrogen bond detachment in polymer complexes. Polymer, 2013, 54, 5382-5390.	1.8	31
98	Facile fabrication of flexible layered GO/BNNS composite films with high thermal conductivity. Journal of Materials Science, 2018, 53, 4189-4198.	1.7	31
99	Enantiocomplementary decarboxylative hydroxylation combining photocatalysis and whole-cell biocatalysis in a one-pot cascade process. Green Chemistry, 2019, 21, 1907-1911.	4.6	31
100	A Simple Approach for Fabricating a Superhydrophobic Surface Based on Poly(Methyl Methacrylate). Journal of Adhesion Science and Technology, 2008, 22, 1841-1852.	1.4	30
101	Facile preparation of poly(ethyl Î±-cyanoacrylate) superhydrophobic and gradient wetting surfaces. Journal of Colloid and Interface Science, 2009, 340, 93-97.	5.0	29
102	Facile fabrication of golf ball-like hollow microspheres of organic-inorganic silica. Journal of Materials Chemistry, 2011, 21, 13056.	6.7	29
103	Ultra Water Repellent Polypropylene Surfaces with Tunable Water Adhesion. ACS Applied Materials & Interfaces, 2017, 9, 10224-10232.	4.0	29
104	Stereoselectivity-Tailored, Metal-Free Hydrolytic Dynamic Kinetic Resolution of Moritaâ€“Baylisâ€“Hillman Acetates Using an Engineered Lipaseâ€“Organic Base Cocatalyst. ACS Catalysis, 2017, 7, 4542-4549.	5.5	29
105	Cast-and-Use Super Black Coating Based on Polymer-Derived Hierarchical Porous Carbon Spheres. ACS Applied Materials & Interfaces, 2019, 11, 15945-15951.	4.0	29
106	Fabrication of honeycomb-patterned polyalkylcyanoacrylate films from monomer solution by breath figures method. Journal of Colloid and Interface Science, 2010, 350, 253-259.	5.0	28
107	Superhydrophobicity determines the buoyancy performance of kapok fiber aggregates. Applied Surface Science, 2013, 266, 225-229.	3.1	28
108	Low-temperature thermal stabilization of polyacrylontrile-based precursor fibers towards efficient preparation of carbon fibers with improved mechanical properties. Polymer, 2015, 76, 131-139.	1.8	28

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109	Biomimetic Gradient Polymers with Enhanced Damping Capacities. Macromolecular Rapid Communications, 2016, 37, 655-661.	2.0	28
110	Fabryâ€“PÃ©rot fringes of hydrogen-bonded assembly films. Thin Solid Films, 2008, 516, 4018-4024.	0.8	27
111	2D SAXS/WAXD analysis of pan carbon fiber microstructure in organic/inorganic transformation. Chinese Journal of Polymer Science (English Edition), 2013, 31, 823-832.	2.0	27
112	Exploiting Cofactor Versatility to Convert a FADâ€Ðependent Baeyerâ€“Villiger Monooxygenase into a Ketoreductase. Angewandte Chemie - International Edition, 2019, 58, 14499-14503.	7.2	26
113	Transparent Super-Repellent Surfaces with Low Haze and High Jet Impact Resistance. ACS Applied Materials & Interfaces, 2021, 13, 13813-13821.	4.0	26
114	Recent Advances in Photobiocatalysis for Selective Organic Synthesis. Organic Process Research and Development, 2022, 26, 1900-1913.	1.3	25
115	In Situ Monitoring of Hydrogel Polymerization Using Speckle Interferometry. Journal of Physical Chemistry B, 1999, 103, 2888-2891.	1.2	24
116	From Cloudy to Transparent: Chain Rearrangement in Hydrogen-Bonded Layer-by-Layer Assembled Films. ChemPhysChem, 2007, 8, 418-424.	1.0	24
117	General Surface Modification Method for Nanospheres via Tannic Acid-Fe Layer-by-Layer Deposition: Preparation of a Magnetic Nanocatalyst. ACS Applied Nano Materials, 2019, 2, 3510-3517.	2.4	24
118	Responsive complex capsules prepared with polymerization of dopamine, hydrogen-bonding assembly, and catechol dismutation. Journal of Colloid and Interface Science, 2018, 513, 470-479.	5.0	23
119	N-doped foam flame retardant polystyrene derived porous carbon as an efficient scaffold for lithium-selenium battery with long-term cycling performance. Chemical Engineering Journal, 2018, 350, 411-418.	6.6	23
120	Plasmonic Metal Nanoparticle Loading to Enhance the Photothermal Conversion of Carbon Fibers. Journal of Physical Chemistry C, 2022, 126, 2454-2462.	1.5	23
121	Synthesis andin vitro degradation of novel copolymers of cyclic carbonate andD,L-lactide. Journal of Applied Polymer Science, 2006, 101, 1988-1994.	1.3	22
122	Simultaneous Tuning of Chemical Composition and Topography of Copolymer Surfaces: Micelles as Building Blocks. ChemPhysChem, 2007, 8, 1108-1114.	1.0	22
123	Effect of temperature on the build-up and post hydrothermal processing of hydrogen-bonded PVPON/PAA film. Soft Matter, 2011, 7, 9435.	1.2	22
124	Polymer Complexation by Hydrogen Bonding at the Interface. Australian Journal of Chemistry, 2014, 67, 11.	0.5	22
125	Facile seed-assisted hydrothermal fabrication of Î³-AlOOH nanoflake films with superhydrophobicity. New Journal of Chemistry, 2014, 38, 1321.	1.4	22
126	Preparation, curing kinetics, and thermal properties of bisphenol fluorene epoxy resin. Journal of Applied Polymer Science, 2007, 106, 1476-1481.	1.3	21

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127	Directional and Path-Finding Motion of Polymer Hydrogels Driven by Liquid Mixing. Langmuir, 2012, 28, 11276-11280.	1.6	21
128	One step preparation of polyaniline micro/nanohierarchical structures with superhydrophobicity. Materials Letters, 2012, 78, 42-45.	1.3	21
129	Lightâ€Driven Kinetic Resolution of Î±â€Functionalized Carboxylic Acids Enabled by an Engineered Fatty Acid Photodecarboxylase. Angewandte Chemie, 2019, 131, 8562-8566.	1.6	21
130	An Extremely Stretchable and Self-Healable Supramolecular Polymer Network. ACS Applied Materials & Interfaces, 2021, 13, 4499-4507.	4.0	21
131	Characterization of maxillofacial silicone elastomer reinforced with different hollow microspheres. Journal of Materials Science, 2015, 50, 3976-3983.	1.7	20
132	Mechanical properties of polyelectrolyte multilayer self-assembled films. Thin Solid Films, 2005, 474, 159-164.	0.8	19
133	SDBS-assisted preparation of novel polyaniline planar-structure: Morphology, mechanism and hydrophobicity. Journal of Colloid and Interface Science, 2014, 414, 46-49.	5.0	19
134	Air-expansion induced hierarchically porous carbonaceous aerogels from biomass materials with superior lithium storage properties. RSC Advances, 2016, 6, 7591-7598.	1.7	19
135	Fabrication of Conductive Silver Microtubes Using Natural Catkin as a Template. ACS Omega, 2017, 2, 1738-1745.	1.6	19
136	Blue Laser Projection Printing of Conductive Complex 2D and 3D Metallic Structures from Photosensitive Precursors. ACS Applied Materials & Interfaces, 2019, 11, 21668-21674.	4.0	19
137	Highly Focused Libraryâ€Based Engineering of Candida antarctica Lipase B with (S)â€Selectivity Towards secâ€Alcohols. Advanced Synthesis and Catalysis, 2019, 361, 126-134.	2.1	19
138	Enantiocomplementary Câ€“H Bond Hydroxylation Combining Photoâ€Catalysis and Wholeâ€Cell Biocatalysis in a Oneâ€Pot Cascade Process. European Journal of Organic Chemistry, 2020, 2020, 821-825.	1.2	19
139	Co/Co₉S₈@carbon nanotubes on a carbon sheet: facile controlled synthesis, and application to electrocatalysis in oxygen reduction/oxygen evolution reactions, and to a rechargeable Zn-air battery. Inorganic Chemistry Frontiers, 2021, 8, 368-375.	3.0	19
140	Self-organized Polymer Aggregates with a Biomimetic Hierarchical Structure and its Superhydrophobic Effect. Cell Biochemistry and Biophysics, 2007, 49, 91-97.	0.9	18
141	Solvent effect on hydrogen-bonded thin film of poly(vinylpyrrolidone) and poly(acrylic acid) prepared by layer-by-layer assembly. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 471, 11-18.	2.3	18
142	Carbon Vesicles: A Symmetryâ€Breaking Strategy for Wideâ€Band and Solventâ€Processable Ultrablack Coating Materials. Advanced Functional Materials, 2020, 30, 1909877.	7.8	18
143	Simulation of Sessile Water-Droplet Evaporation on Superhydrophobic Polymer Surfaces. Chinese Journal of Chemical Physics, 2007, 20, 140-144.	0.6	17
144	Photo-induced DNA cleavage in self-assembly multilayer films. New Journal of Chemistry, 2002, 26, 617-620.	1.4	16

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145	Synthesis and biodegradability evaluation of 2-methylene-1,3-dioxepane and styrene copolymers. Journal of Applied Polymer Science, 2007, 103, 1146-1151.	1.3	16
146	Facile fabrication of large scale microtubes with a natural template â€" Kapok fiber. Chinese Journal of Polymer Science (English Edition), 2010, 28, 841-847.	2.0	16
147	Relationship between performance and microvoids of aramid fibers revealed by two-dimensional small-angle X-ray scattering. Journal of Applied Crystallography, 2013, 46, 1178-1186.	1.9	16
148	Effects of ultra-high temperature treatment on the microstructure of carbon fibers. Chinese Journal of Polymer Science (English Edition), 2017, 35, 764-772.	2.0	16
149	New comonomer for polyacrylonitrile-based carbon fiber: Density functional theory study and experimental analysis. Polymer, 2018, 153, 369-377.	1.8	16
150	Tear resistant Tyvek/Ag/poly(3,4-ethylenedioxythiophene): Polystyrene sulfonate (PEDOT:PSS)/carbon nanotubes electrodes for flexible high-performance supercapacitors. Chemical Engineering Journal, 2021, 420, 127665.	6.6	16
151	Intramolecular Stereoselective Stetter Reaction Catalyzed by Benzaldehyde Lyase. Angewandte Chemie - International Edition, 2021, 60, 9326-9329.	7.2	16
152	Synthesis and structure of polymethylsilsesquioxane-clay nanocomposite viain situ intercalative polymerization. Journal of Applied Polymer Science, 2002, 86, 3708-3711.	1.3	15
153	Precise preparation of highly monodisperse ZrO2@SiO2 coreâ€"shell nanoparticles with adjustable refractive indices. Journal of Materials Chemistry C, 2013, 1, 3359.	2.7	15
154	One-pot bienzymatic cascade combining decarboxylative aldol reaction and kinetic resolution to synthesize chiral Î²-hydroxy ketone derivatives. RSC Advances, 2016, 6, 76829-76837.	1.7	15
155	Dynamics of the layer-by-layer assembly of a poly(acrylic acid)â€"lanthanide complex colloid and poly(diallyldimethyl ammonium). Soft Matter, 2016, 12, 867-875.	1.2	15
156	Continuous preparation of high performance flexible asymmetric supercapacitor with a very fast, low-cost, simple and scalable electrochemical co-deposition method. Journal of Power Sources, 2019, 437, 226827.	4.0	15
157	In situ monitoring gelation process of N,N-dimethylacrylamide by refractive index technique. Polymer, 2002, 43, 6761-6765.	1.8	14
158	A facile approach to superhydrophobic coating from direct polymerization of â€œsuper glueâ€• Soft Matter, 2011, 7, 4050.	1.2	14
159	Self-assembly of flower-like polyanilineâ€"polyvinyl alcohol multidimensional architectures from 2D petals. Materials Letters, 2011, 65, 2812-2815.	1.3	14
160	Blue laser diode-initiated photosensitive resins for 3D printing. Journal of Materials Chemistry C, 2017, 5, 12035-12038.	2.7	14
161	A superhydrophobic surface with high performance derived from STA-APTES organicâ€"inorganic molecular hybrid. Journal of Colloid and Interface Science, 2013, 407, 482-487.	5.0	13
162	Facile fabrication of metal oxide hollow spheres using polydopamine nanoparticles as active templates. Polymer International, 2015, 64, 986-991.	1.6	13

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163	Spherically aggregated Cu₂Oâ€“TA hybrid sub-microparticles with modulated size and improved chemical stability. CrystEngComm, 2017, 19, 1888-1895.	1.3	13
164	Fabrication of covalently attached conducting multilayer self-assembly film of polyaniline by in situ coupling reaction. Synthetic Metals, 2002, 128, 305-309.	2.1	12
165	Morphology and Crystalline Structure of Poly(É›-Caprolactone) Nanofiber via Porous Aluminium Oxide Template. Macromolecular Materials and Engineering, 2006, 291, 1098-1103.	1.7	12
166	Biologically Inspired Path-Controlled Linear Locomotion of Polymer Gel in Air. Journal of Physical Chemistry B, 2007, 111, 941-945.	1.2	12
167	Hydrogen bonding effect on micellization and morphological transformations of the polystyrene-block-poly(ethylene oxide) micelles. Soft Matter, 2012, 8, 10307.	1.2	12
168	Synthesis and electrochemical properties of various dimensional polyaniline micro/nanostructures: Microdisks, nanospheres and nanofibers. Materials Letters, 2012, 71, 70-73.	1.3	12
169	Rhodamine loading and releasing behavior of hydrogen-bonded poly(vinylpyrrolidone)/poly(acrylic) Tj ETQq1 1 0.784314 rgBT /Overlo	2.3	12
170	Fabrication of oriented wrinkles on polydopamine/polystyrene bilayer films. Journal of Colloid and Interface Science, 2017, 498, 123-127.	5.0	12
171	Heat-Resistant and High-Performance Solid-State Supercapacitors Based on Poly(para-phenylene) Tj ETQq1 1 0.784314 rgBT /O 2021, 13, 18100-18109.	4.0	12
172	Multilayer Films from Phenolic Resinâ€“Sodium Dodecyl Sulfate Complex and Polycations. Journal of Colloid and Interface Science, 2002, 249, 91-95.	5.0	11
173	Field-driven gel actuator with versatile long-range locomotion in air. Applied Physics Letters, 2007, 90, 153506.	1.5	11
174	Self-assembly hierarchical micro/nanostructures of leaf-like polyaniline with 1D nanorods on 2D foliage surface. Materials Letters, 2011, 65, 2724-2727.	1.3	11
175	Cu2O-clay composites with sub-micrometer-sized Cu2O particles for marine antifouling paints. Journal of Coatings Technology Research, 2019, 16, 25-30.	1.2	11
176	Phase change materials with multiple energy conversion and storage abilities based on large-scale carbon felts. Composites Science and Technology, 2022, 221, 109177.	3.8	11
177	Fluorescence staining and confocal laser scanning microscopy study of hydrogen-bonded poly(vinylpyrrolidone)/poly(acrylic acid) film. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 392, 83-87.	2.3	10
178	Noncovalent fabrication and electrochemical capacitance of uniform coreâ€“shell structured polyanilineâ€“carbon nanotube nanocomposite. RSC Advances, 2012, 2, 11887.	1.7	10
179	Interfacial complexation behavior of anionic andÂcationic cellulose derivatives. RSC Advances, 2014, 4, 55459-55465.	1.7	10
180	Robust anti-reflective silica nanocoatings: abrasion resistance enhanced via capillary condensation of APTES. Journal of Materials Chemistry C, 2015, 3, 4254-4259.	2.7	10

#	Article	IF	Citations
181	A versatile coating approach to fabricate superwetting membranes for separation of water-in-oil emulsions. Chinese Journal of Polymer Science (English Edition), 2016, 34, 1234-1239.	2.0	10
182	Molecular weight switchable polyurethanes enable melt processing. Chemical Engineering Journal, 2020, 384, 123287.	6.6	10
183	Cyclization mechanism and kinetics of poly(acrylonitrile-co-2-acrylamido-2-methylpropane sulfonic) Tj ETQq1 1 0.784314 rgBT /Overlock	2.3	10
184	Electronic Effectâ€Guided Rational Design of Candida antarctica Lipase B for Kinetic Resolution Towards Diarylmethanols. Advanced Synthesis and Catalysis, 2021, 363, 1867-1872.	2.1	10
185	Digital Light Processing 3D Printing of Enhanced Polymers via Interlayer Welding. Macromolecular Rapid Communications, 2022, 43, e2200053.	2.0	10
186	Ultrafast Solar-Vapor Harvesting Based on a Hierarchical Porous Hydrogel with Wettability Contrast and Tailored Water States. ACS Applied Materials & Interfaces, 2022, 14, 24766-24774.	4.0	10
187	A unique behavior of water drops induced by low-density polyethylene surface with a sharp wettability transition. Journal of Colloid and Interface Science, 2007, 311, 186-193.	5.0	9
188	â€œSchizophrenicâ€•Micellization of Poly(Acrylic Acid)-B-Poly(2-Dimethylamino)Ethyl Methacrylate and Responsive Behavior of the Micelles. Soft Materials, 2013, 11, 394-402.	0.8	9
189	Effect of microgel content on the shear and extensional rheology of polyacrylonitrile solution. Colloid and Polymer Science, 2015, 293, 587-596.	1.0	9
190	Effect of water content on the size and membrane thickness of polystyrene-block-poly(ethylene oxide) vesicles. Chinese Journal of Polymer Science (English Edition), 2015, 33, 661-668.	2.0	9
191	Cu nanocrystal enhancement of C₃N₄/Cu hetero-structures and new applications in photo-electronic catalysis: hydrazine oxidation and redox reactions of organic molecules. Inorganic Chemistry Frontiers, 2018, 5, 2420-2424.	3.0	9
192	Rational Design of Biocatalytic Deuteration Platform of Aldehydes. ACS Catalysis, 2021, 11, 13348-13354.	5.5	9
193	Rational design of fatty acid photodecarboxylase enables the efficient decarboxylation of medium- and short-chain fatty acids for the production of gasoline bio-alkanes. Molecular Catalysis, 2022, 524, 112261.	1.0	9
194	Siloxane surfactant-modified clay and its effect in reinforcing the laminate of polymethylsilsesquioxane. Journal of Applied Polymer Science, 2006, 100, 3974-3980.	1.3	8
195	Patterning of hydrogen-bonded assembly film through ionization in vapor. Thin Solid Films, 2009, 517, 3024-3027.	0.8	8
196	Preparation of carpenterworm-like polyaniline/carbon nanotubes nanocomposites with enhanced electrochemical property. Materials Letters, 2013, 92, 157-160.	1.3	8
197	Mechanically robust aerogels derived from an amine-bridged silsesquioxane precursor. Journal of Sol-Gel Science and Technology, 2015, 75, 519-529.	1.1	8
198	Cellulose derivative-lanthanide complex film by hierarchical assembly process. Carbohydrate Polymers, 2017, 168, 240-246.	5.1	8

#	Article	IF	Citations
199	Facile preparation and characterization of soluble aramid. Journal of Applied Polymer Science, 2018, 135, 4634159.	1.3	8
200	Double Enzyme-Catalyzed One-Pot Synthesis of Enantiocomplementary Vicinal Fluoro Alcohols. Organic Letters, 2020, 22, 5446-5450.	2.4	8
201	In Situ Investigation of Drug Diffusion in Hydrogels by the Refractive Index Method. Analytical Chemistry, 2004, 76, 2807-2812.	3.2	7
202	Electrically induced linear locomotion of polymer gel in air. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 1187-1197.	2.4	7
203	Morphology transformation of polystyrene-block-poly(ethylene oxide) vesicle on surface. Polymer, 2013, 54, 3709-3715.	1.8	7
204	Patterned polymer surfaces with wetting contrast prepared by polydopamine modification. Journal of Applied Polymer Science, 2014, 131, .	1.3	7
205	Formation of AlOOH and silica composite hierarchical nanostructures thin film by solâ€“gel dip-coating for superhydrophobic surface with high adhesion force. Journal of Sol-Gel Science and Technology, 2014, 72, 511-517.	1.1	7
206	Conformal Nanocoatings with Uniform and Controllable Thickness on Microstructured Surfaces: A General Assembly Route. Advanced Materials, 2018, 30, 1704131.	11.1	7
207	Polyester Nanofilms with Enhanced Polyhydroxyl Architectures for the Separation of Metal Ions from Aqueous Solutions. ACS Applied Nano Materials, 2018, 1, 6176-6186.	2.4	7
208	Exploiting Cofactor Versatility to Convert a FADâ€Dependent Baeyerâ€“Villiger Monooxygenase into a Ketoreductase. Angewandte Chemie, 2019, 131, 14641-14645.	1.6	7
209	Hierarchical Porous Polymer Coatings Based on UV-Curing for Highly Efficient Passive All-Day Radiative Cooling. ACS Applied Polymer Materials, 2022, 4, 5746-5755.	2.0	7
210	Polymethylsilsesquioxane and hydroxylâ€terminated polydimethylsiloxane composite: Vapor incubation before thermal curing. Journal of Applied Polymer Science, 2009, 111, 1454-1461.	1.3	6
211	Folding and birefringence behavior of poly(vinyl alcohol) hydrogel film induced by freezing and thawing. RSC Advances, 2014, 4, 49861-49865.	1.7	6
212	Preparation of recyclable polybutadiene rubber based on acidâ€“base complexation. Journal of Applied Polymer Science, 2017, 134, 45280.	1.3	6
213	Dual-Enzyme-Catalyzed Synthesis of Enantiocomplementary Polyesters. ACS Macro Letters, 2019, 8, 1432-1436.	2.3	6
214	Investigation of the Cyclization Mechanism of Poly(acrylonitrile-co-ethylenesulfonic acid) Copolymer during Thermal Oxidative Stabilization by In Situ Infrared Spectroscopy. Industrial & Engineering Chemistry Research, 2020, 59, 9519-9531.	1.8	6
215	Biocatalytic Site-Selective Hydrogen Isotope Exchange of Unsaturated Fragments with D₂O. ACS Catalysis, 2022, 12, 783-788.	5.5	6
216	Optical investigation of diffusion of levofloxacin mesylate in agarose hydrogel. Journal of Biomedical Optics, 2009, 14, 050503.	1.4	5

#	Article	IF	Citations
217	Diffusion of levofloxacin mesylate in agarose hydrogels monitored by a refractiveâ€index method. Journal of Applied Polymer Science, 2011, 122, 3000-3006.	1.3	5
218	Intramolecular Stereoselective Stetter Reaction Catalyzed by Benzaldehyde Lyase. Angewandte Chemie, 2021, 133, 9412-9415.	1.6	5
219	Engineering Fatty Acid Photodecarboxylase to Enable Highly Selective Decarboxylation oftransFatty Acids. Angewandte Chemie, 2021, 133, 20863-20867.	1.6	5
220	Investigation of the gelation process by in-situ interferometry. Macromolecular Rapid Communications, 2000, 21, 998-1001.	2.0	4
221	Structure and fabry-pÃ©rot fringes of polymer-boehmite hybrid thin film by solâ€“gel dip-coating. Journal of Sol-Gel Science and Technology, 2015, 73, 154-160.	1.1	4
222	Facile preparation of bridged silsesquioxane microspheres with interconnected multi-cavities and open holes. RSC Advances, 2016, 6, 21571-21576.	1.7	4
223	Solvent free nanoscale ionic materials based on Fe3O4 nanoparticles modified with mussel inspired ligands. Journal of Colloid and Interface Science, 2018, 531, 404-409.	5.0	4
224	Facile synthesis of robust hybrid xerogels by an emulsion assistant method. Chemical Engineering Journal, 2020, 401, 125937.	6.6	4
225	Dualâ€Tunable Structural Colors from Liquidâ€Infused Aerogels. Advanced Optical Materials, 2020, 8, 1901825.	3.6	4
226	Long-Range Self-Governing Motion of Polymer Gel on a Gradiently Charged Insulating Substrate. ChemPhysChem, 2007, 8, 899-905.	1.0	3
227	Preparation and properties of organicâ€“inorganic hybrid composites based on polystyrene and an incompletely condensed polyvinylsilsesquioxane oligomer. Journal of Applied Polymer Science, 2010, 117, 2497-2505.	1.3	3
228	Chain diffusion and exchange during build-up of hydrogen-bonded polymer complex film. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 539, 148-153.	2.3	3
229	One-Step Self-Assembly for Fabricating Asymmetric Particle Arrays and Templates for Bifunctional Systems. ACS Applied Nano Materials, 2018, 1, 3800-3806.	2.4	3
230	Cu₂Oâ€“IER (Ion-exchange Resin) Composites: A Novel Strategy for Cu₂O Synthesis. Chemistry Letters, 2016, 45, 238-240.	0.7	2
231	Nanoâ€structured Hollow Carbon Materials from a Nonâ€isothermal Chemical Vapor Deposition of Polyphenols. Chinese Journal of Chemistry, 2020, 38, 590-594.	2.6	2
232	Polysilsesquioxane Nanosheets Synthesized in Confined Environment. Macromolecular Rapid Communications, 2003, 24, 676-680.	2.0	1
233	A developed full-field fem analysis combined with ESPI for the investigation of defect evolution in polymer films. Chinese Journal of Polymer Science (English Edition), 2013, 31, 1022-1028.	2.0	1
234	Preparation and electrochemical property of tremella-like polyaniline microspheres by a template-free method. Materials Letters, 2013, 92, 115-118.	1.3	1

#	Article	IF	Citations
235	Reversible molecular adsorption of free-standing nano-composite film made from boehmite and poly(acrylic acid). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 507, 210-217.	2.3	1
236	Customizing the Enantioselectivity of a Cyclohexanone Monooxygenase by a Strategy Combining â€œSizeâ€Probesâ€•with in silico Study. ChemCatChem, 2019, 11, 5085-5092.	1.8	1
237	Biophotonic Films: Biomimetic Polymer Film with Brilliant Brightness Using a Oneâ€Step Water Vaporâ€“Induced Phase Separation Method (Adv. Funct. Mater. 23/2019). Advanced Functional Materials, 2019, 29, 1970158.	7.8	1
238	Phase transformation of PiMoCo and their electrocatalytic activity for oxygen evolution reaction. CrystEngComm, 2020, 22, 6003-6009.	1.3	1
239	PREPARATION AND TECHNOLOGY STUDY OF FLEXIBLE REFLECTIVE ELECTROCHROMIC DEVICES BASED ON POLYANILINE. Acta Polymerica Sinica, 2011, 011, 1284-1290.	0.0	1
240	The Propulsion of a Miniature Device by Organic Fluid Jetflow through Polymer Submicron Tubes. Chinese Physics Letters, 2013, 30, 126801.	1.3	0
241	Fabrication of Porous Alumina Nanofibers with Hollow Structure by Single Capillary Electrospinning. Advanced Materials Research, 2013, 750-752, 236-240.	0.3	0